

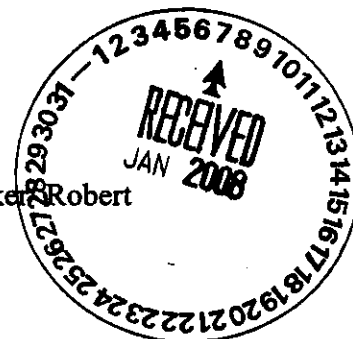
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Cover

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Report Identification Number: 07I-2281-01
Subcontract Number: 0000X-BO-G0058-B-Mod #14
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasken / Robert Brounster / Garrett Knutson / Brian Fauver
Laboratory Identification Number: DCHM
SAF#: RC-032 / R128F22000



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
11 Dec 2007	J163R2	07I14670	NIOSH 9002	G07CD008	BULK
11 Dec 2007	J163R3	07I14671	NIOSH 9002	G07CD008	BULK
11 Dec 2007	J163R4	07I14672	NIOSH 9002	G07CD008	BULK
11 Dec 2007	J163T0	07I14673	NIOSH 9002	G07CD008	BULK
11 Dec 2007	J163T1	07I14674	NIOSH 9002	G07CD008	BULK

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Name: Peter P. Steen
Title: Chemist
Date: January 03, 2008



Case Narrative

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Report Identification Number: 07I-2281-01
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Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Robert Brounster/ Garrett Knutson / Brian Fauver
Laboratory Identification Number: DCHM
SAF#: RC-032 / R128F22000

General Set Information: There were a total of five samples in set 07I-2281-01 which were analyzed for asbestos in bulk material. No problems were encountered with the receipt of these samples.

Method Summary: All samples were examined for homogeneity. Non-homogeneous samples were ground to ensure homogeneity. Distinct layers were analyzed separately. The samples were prepared and examined for asbestos fibers utilizing the procedures outlined in NIOSH method 9002 (4th edition). A polarizing light microscope equipped with a 10x and a 16x eyepiece was used for the analysis. The area percentage of asbestos was estimated microscopically by a visual estimation of the fibers with a length-to-width aspect ratio of 3:1 or greater. If present, asbestos identities were confirmed with the appropriate refractive index oils applying dispersion staining techniques.

Sample Preparation: All samples were prepared in accordance with NIOSH method 9002 (4th edition).

Initial and Continuing Calibration Verification Analysis: N/A

Initial and Continuing Calibration Blank Analysis: N/A

Method Blank Analysis: N/A

Dilution(s): N/A.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) was prepared and analyzed with the sample batch. The results were within the control limit of +/- one reporting range.

Replicate Analysis: One sample was replicated with this analysis run.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A



Case Narrative

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Sample Calculation: Sample results are reported by a visual estimation of the area percentage of asbestos. If necessary, a gravimetric ashing procedure may be used to remove certain non-asbestos material from the sample; a percentage calculation is used to correct for the removal of the non-asbestos material.

Miscellaneous Comments:

07I14670: Brown, granular soil.
07I14671: Brown, granular soil.
07I14672: Brown, granular soil.
07I14673: Brown, granular soil.
07I14674: Brown, granular soil.



Results

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Report Identification Number: 07I-2281-01

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Laboratory Identification Number: DCHM

SAF#: RC-032 / R128F22000

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Amosite % Asbestos		Chrysotile % Asbestos		Crocidolite % Asbestos	
J163R2	07I14670	03 Jan 2008	ND	U	ND	U	ND	U
J163R3	07I14671	03 Jan 2008	ND	U	ND	U	ND	U
J163R4	07I14672	03 Jan 2008	ND	U	ND	U	ND	U
J163T0	07I14673	03 Jan 2008	ND	U	ND	U	ND	U
J163T1	07I14674	03 Jan 2008	ND	U	ND	U	ND	U
Limit of Detection (LOD)			<1		<1		<1	
Required Detection Limit (RDL)								

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite % Asbestos		Anthophyllite % Asbestos	
J163R2	07I14670	03 Jan 2008	ND	U	ND	U
J163R3	07I14671	03 Jan 2008	ND	U	ND	U
J163R4	07I14672	03 Jan 2008	ND	U	ND	U
J163T0	07I14673	03 Jan 2008	ND	U	ND	U
J163T1	07I14674	03 Jan 2008	ND	U	ND	U
Limit of Detection (LOD)			<1		<1	
Required Detection Limit (RDL)						

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.



QC Summary

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Laboratory Identification Number: DCHM
SAF: RC-032 / R128F22000

Batch ID: G07CD008

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
QC 101654	Bulk	Asbestos	%	10.0		7.5	133.3	
QC 101654	Bulk	Asbestos	%	5.0	133.3	7.5	66.7	

MB - Method Blank
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
LD - Laboratory Duplicate

NA - Not Applicable
ND - Parameter not detected above LOD

$LCS, LCSD \text{ Percent Rec.} = (\text{Result} / \text{Target}) * 100.0$
 $MS, MSD \text{ Percent Rec.} = ((\text{Result} - \text{Parent}) / \text{Target}) * 100.0$

$LCS, LCSD \text{ Relative Percent Diff.} = ((|\text{LCS} - \text{LCSD}|) / ((\text{LCS} + \text{LCSD})/2.0)) * 100.$
 $MS, MSD \text{ Relative Percent Diff.} = ((|\text{MS} - \text{MSD}|) / ((\text{MS} + \text{MSD})/2.0)) * 100.$
 $LD \text{ Relative Percent Diff.} = ((|\text{Parent} - \text{LD}|) / ((\text{Parent} + \text{LD})/2.0)) * 100$

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-032-183		Page 1 of 1	
Collector	Project Description	Field Notebook No.	COA	Method of Shipment	Price Code	Date Turnaround			
T. Welch-Kodling / J.B. DeBriqne	100-F Containing Sites Burial Grounds - Soil Pull Protocol	EPL-1174-4	R128F22000	FED EX	8B	7 DAY			
Site Chest No.	Free Chest No.	Offsite Preserv. No.							
ERC-01-041	SAHCLAD 312-1207	A080144							
Shipped To									
DioxChem Laboratories - Cincinnati									
POSSIBLE SAMPLE HAZARDS/REMARKS									
NA									
Special Handling and/or Storage									
NA									
SAMPLE ANALYSIS									
Sample No.	Matrix *	Sample Date	Sample Time	Preservation	Name				
J163R2	SOIL	12-11-07	0830		AS				
J163R3	SOIL		0840						
J163R4	SOIL		0850						
J163T0	SOIL		0900						
J163T1	SOIL		0910						
CHAIN OF POSSESSION									
Received By/Received From	Date/Time	Signature	Date/Time						
J.B. DeBriqne / J.B. DeBriqne	12-11-07	3124 / z.c.	12-11-07						
Received By/Received From	Date/Time	Signature	Date/Time						
372R / R.C. 12-12-07	0830	W. DeBriqne	12-12-07						
Received By/Received From	Date/Time	Signature	Date/Time						
W. DeBriqne / J.B. DeBriqne	12-12-07	FED EX	12-12-07						
Received By/Received From	Date/Time	Signature	Date/Time						
W. DeBriqne / J.B. DeBriqne	12-12-07	W. DeBriqne	12-12-07						
Received By/Received From	Date/Time	Signature	Date/Time						
W. DeBriqne / J.B. DeBriqne	12-12-07	W. DeBriqne	12-12-07						
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W. DeBriqne / J.B. DeBriqne	12-12-07	W. DeBriqne	12-12-07						
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W. DeBriqne / J.B. DeBriqne	12-12-07	W. DeBriqne	12-12-07						
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Received By/Received From	Date/Time	Signature	Date/Time						
W. DeBriqne / J.B. DeBriqne	12-12-07	W. DeBriqne	12-12-07						
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W. DeBriqne / J.B. DeBriqne	12-12-07	W. DeBriqne	12-12-07						
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Received By/Received From	Date/Time	Signature	Date/Time						
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Received By/Received From	Date/Time	Signature	Date/Time						
W. DeBriqne / J.B. DeBriqne	12-12-07	W. DeBriqne	12-12-07						
Received By/Received From	Date/Time	Signature	Date/Time						
W. DeBri									

NYCH-EE-011